

# RTV 800-610 / RTV 800-620

## UV CURED GELS



### DESCRIPTION

Novagard RTV 800-610 and RTV 800-620 are UV cure silicone gels. These non-corrosive, single-component silicones will cure to extremely soft rubbery gels upon exposure to ultra-violet light source.

### FEATURES & BENEFITS

- Exceptionally fast UV cure
- Single component
- No oxygen inhibition
- Room temperature curing
- Solvent free formulations
- No corrosive byproducts

### UV APPLICATION

All laboratory experiments were conducted using a mercury vapor lamp operating at 125 and 300 WPI. To achieve a tack free surface requires 0.30 seconds exposure at 500 mW/cm<sup>2</sup>, or 0.60 seconds at 245 mW/cm<sup>2</sup>. As with any UV curing system, longer exposure times are required for lower intensity lamp conditions.

### AVAILABILITY

Consult Novagard Sales representative for packaging options and volume requirements.

### STORAGE

Novagard® RTV 800-610 and RTV 800-620 may be stored in the original unopened containers at, or below, 80° F for up to six (6) months.

### PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Clear fluids
Specific Gravity		0.95 - 1.05
Viscosity	Brookfield LV #2,4 800-610 800-620	<750 cps 20,000 – 25,000 cps
Shore Hardness 00	ASTM D-2240 800-610 800-620	80 +/- 5 60 +/- 5
UV Cure	“D” Bulb @ 8-9 J/cm <sup>2</sup>	> 30 grams

### PRECAUTIONS

Consult and obey all applicable local, state and federal regulations for disposal of solvent and silicone waste. For additional information consult product M.S.D.S. Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine or peroxides. Not recommended for surfaces that are to be painted.

### ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product; however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy and safety.

### TYPICAL PROPERTIES\*

Physical Property	Test Method	Typical Value
Volume Resistivity	ASTM D 257 800-610 800-620	5.41 x 10 <sup>14</sup> ohm-cm 4.66 x 10 <sup>14</sup> ohm-cm
Dissipation Factor (100 Hz / 100 kHz)	ASTM D 150 800-610 800-620	0.0039 / 0.0024 0.0036 / 0.0029
Dielectric Constant (100 Hz / 100 kHz)	ASTM D 150 800-610 800-620	3.30 / 3.20 3.37 / 3.34
Dielectric Strength 10 mil gap	ASTM D 149 800-610 800-620	500 v/mil 480 v/mil

\*\*The values outlined reflect testing that was conducted on laboratory prepared specimens, actual results may vary. Results are after UV cure plus 7 days at 25°C/50% RH moisture cure.

Novagard **Solutions**™  
5109 Hamilton Avenue  
Cleveland, OH 44114

Form Name  
10-D2-RX86XX

Phone: (216) 881-3890 Facsimile: (216) 881-6977

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